

Project Reconnaissance, Surveillance, Targeting Acquisition (RSTA)

Purpose: Develop a reconnaissance, surveillance and target acquisition network that supports the warfighter.

Background: The Marine Corps continues to develop and enhance its capability to conduct maneuver warfare from a seabase. Our philosophy of maneuver warfare will rely heavily on finding and exploiting gaps in order to achieve operational objectives. Enhanced RSTA is a key capability that will enable

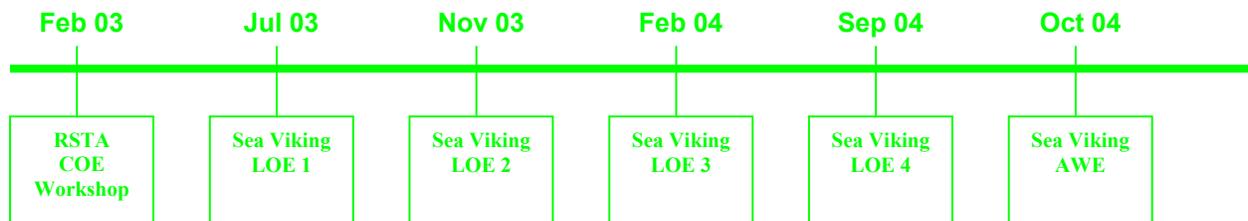
Marine forces to attack from far at sea, deep inland with highly maneuverable and widely dispersed tactical elements imbued with commander’s intent and empowered to make independent decisions. Project RSTA is the umbrella project that integrates the development of a sensor grid and its various forms of sensor components into a coherent tactically relevant system. The sensor grid is composed of all available sensors in the battlespace – human, automated sensors, and unmanned ground and aerial vehicles. The information gained about the battlespace from this grid will be translated into the common tactical picture– a near-real-time graphic representation of the RSTA Grid - a battlefield "picture" that will enable enhanced situational awareness, a common understanding of the battlespace among Marine Air Ground Task Force units and commanders, and improved decision-making.



Description: Project RSTA’s focus of effort is to develop a RSTA Concept of Employment (COE) & TTPs in support of STOM. The RSTA Team will develop the RSTA COE that includes organization and TTPs for MEU and Battalion RSTA assets. The COE covers current Marine sensors as well as Navy, Joint and National sensor capabilities that will be available to support a deploying MEU. The COE will also include experimental Marine Reconnaissance technologies and Unattended Ground Sensors (UGS) that will be integrated into the Lab’s Expeditionary Tactical Communications System (ETCS) to transmit sensor reports to a sea-based COC via an Iridium netted Over-the-Horizon (OTH) communications system.

Deliverable Products: MEU and Battalion RSTA Concepts of Employment, supporting programs of instructions and TTPs for UGS and reconnaissance technologies.

Milestones:



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